

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-22-91	
Company Southland Royalty		Connection EPNG	
Pool Blanco		Formation Mesa Verde	
Completion Date 6-28-91		Total Depth 5978'	
Plug Back TD 5938'		Elevation 6341 GR	
Form or Lease Name Halt		Well No. 2R	
Csg. Size 7" 4 1/2"		Wt. 23# 10.5#	
Tbg. Size 2 3/8		Wt. 4.7	
Set At 3699 5978		Perforations: From 4796 To 5716	
Set At 5594		Perforations: From To	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F 8	
Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
County San Juan		State New Mexico	
L		H	
Cg .700		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run	
Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		.750				460		460		
1.							185		429		30 Min
2.							183		425		45 Min
3.							180		420		1 Hr.
4.							180		411		2 Hr.
5.							172		402		3 Hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		184.2	1.000	.9258	1.000	2109
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 472.2 P _c ² 222,973				
NO.	P _t	P _w	R _w ²	P _c ² - R _w ²
1		414.2	171562	51411
2.				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 4.3371$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 6338$$

$$(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 3.005$$

Absolute Open Flow	Mcf/d @ 15.025	Angle of Slope	Slope, n 0.75
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Remarks: No fluid during test.

Approved By Division	Conducted By: Richard Lopez	Calculated By: <i>DB</i>	Checked By:
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